Fisheries Production Statistics Of British Columbia 1987

Province of British Columbia
Ministry of Agriculture and Fisheries
Hon. John Savage, Minister

Aquaculture and Commercial Fisheries Branch
Commercial Fisheries Section

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OF BRITISH COLUMBIA

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FOREWORD

This is the seventh annual issue of the Fisheries Production Statistics of British Columbia to be published by the Province of British Columbia. As a result of the transfer of Commercial Fisheries to the Ministry of Agriculture and Fisheries in September of 1986, this issue is the second to be published by this Ministry. Prior to the 1981 edition, production statistics were published by the Department of Fisheries and Oceans, Canada dating back to 1951.

This report is a summary of fish production statistics reported in the 1987 census of fish processing plants licenced in British Columbia. The format is similar to previous years in which the majority of the text and tables document data pertaining to fish landings and production. In addition, information relating to licencing within the fishing and fish processing sectors is also reported. A table documenting the regional distribution of employment in the fish processing sector by month in 1987 has been included this year.

It should be noted that all data on fish landings is provided by the Department of Fisheries and Oceans which includes direct vessel exports and estimates of year end bonus payments to fishermen.

All quantity data are presented in tonnes, except where otherwise indicated, and values are shown in thousands of dollars. One tonne equals 2,204.6 pounds or 1,000 kilograms.

I would like to thank the many people in the industry and various agencies of both governments who contributed to this report. Special thanks to Linda Low who compiled much of the data and to Joyce Weir for prepa ing the manuscript.

This report was compiled under the direction of T.B. Proverbs.

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I. SUMMARY OF THE BRITISH COLUMBIA FISHING AND FISH PROCESSING INDUSTRIES - 1987

In 1987, the quantity of British Columbia fish landings increased by 12 percent from 221,186 tonnes recorded in 1986 to 248,306[1] tonnes. The corresponding landed value also increased by 12 percent from 404.7 million to $452.6 million. The increase in overall landings was again primarily attribute to a significant increase in groundfish landings. The increased landed value reflects a general increase in landed prices. Total salmon landings declined significantly from last year as did the landed value. They returned to levels which represent the long term historical averages. The combined herring fisheries also experienced a return to historic levels by increasing to 37,809 tonnes. Both landings and landed value increased by about 130 percent. Halibut, domestic groundfish and shellfish fisheries showed modest increases in landings and landed values. Cooperative hake fishing arrangements with foreign nations showed a substantial increase in 1987.

For the third straight year, the fish processing sector reported a record with a total wholesale value of $808 million, an increase of 5 percent from the previous year. The wholesale value of herring products increased by a dramatic 97 percent. Salmon recorded a 21 percent decrease in wholesale value mainly due to the decrease in landings. Halibut, groundfish and shellfish also showed substantial increases in wholesale value, up 21, 38 and 61 percent respectively.

From the perspective of the overall British Columbia economy, the commercial fishing and fish processing sectors together contributed approximately 1 percent to the Provincial gross domestic product. The wholesale value of B.C. fish products accounted for nearly 26 percent of the total value of Canadian marine fish production.

The regional distribution of the wholesale value for fisheries products processed in British Columbia remained similar to previous years, except that the lower mainland accounted for a slightly higher than average percentage. Approximately 67 percent of the total value originated from the Lower Mainland region.

A total of 18,542 personal commercial fishing licences were issued by the Department of Fisheries and Oceans in 1987, including 1987 5 year licences and 16,555 traditional 1 year licences. This compares with the 1986 total of 16,721 licences, which consisted of 921 5 year licences and 15,800 1 year licences. Excluding packers and processors a total of 6,527 vessels were licenced to fish commercially in British Columbia in 1987.

One hundred and ninety-eight firms utilizing 171 plants reported processed fish production in 1987. This figure includes 32 companies that leased facilities or had fish custom-processed. In addition, production was reported by 20 fishing companies that exported fresh fish to the United States and 25 salmon mariculture operations. The Provincial Aquaculture and Commercial Fisheries Branch issued 237 fish processing licences, 463 fish buying licences, 181 fishermen's vending licences, 412 oyster picking permits and 52 marine plant harvesting licences.

TABLE 1 - QUANTITY AND VALUE OF B.C. FISH LANDINGS BY SPECIES - 1987

	LANDED QUANTITY (Tonnes)	LANDED VALUE ($'000)	WHOLESALE VALUE ($'000)
SALMON[1]	63,515	212,063	425,601
SALMON MARICULTURE	1,362	10,281	10,530
SUBTOTAL	64,877	222,344	436,131
HERRING[2]	37,809	107,352	173,650
HALIBUT[3]	5,444	28,326	37,897
GROUNDFISH			
DOGFISH	3,767	1,539	2,464
FLOUNDER	67	30	90
HAKE[4]	60,713	9,371	11,063
LINGCOD	3,540	3,310	7,569
PACIFIC COD	13,691	8,577	17,284
PACIFIC OCEAN PERCH	6,275	4,209	6,422
POLLOCK	861	251	4,008
ROCKFISH[5]	17,857	13,901	23,073
SABLEFISH	4,717	14,546	16,953
SKATE	751	124	399
SOLE	3,022	2,472	5,752
TURBOT	1,111	347	1,358
OTHER GROUNDFISH	417[6]	103[6]	7,864[7]
SUB TOTAL	116,789	58,780	104,299
SHELLFISH			
ABALONE	49	973	873
CLAMS[8]	4,634	7,083	10,243
CRABS	1,631	6,452	9,025
GEODUCKS	5,734	6,184	12,265
OCTOPUS	130	381	275
OYSTERS	3,482	2,548	3,713
SEA URCHINS	2,223	1,276	4,929
SHRIMP & PRAWNS	3,264	8,935	11,528
OTHER SHELLFISH	2,038[9]	1,471[9]	3,148[10]
SUB TOTAL	23,185	35,303	55,999
OTHER SPECIES			
STURGEON	6	12	17
TUNA[11]	92	300	231
OTHER	104[12]	160[12]	68[13]
SUBTOTAL	202	472	316
TOTAL	248,306	452,577	808,292

TABLE 1 - CONT'D - FOOTNOTES

1 Includes salmon roe. Wholesale value includes production derived from U.S. salmon.
2 Includes herring spawn on kelp.
3 Includes total landings at United States ports of 693 tonnes valued at $4,016,110.
4 Includes 47,601 tonnes of hake valued at $7,648,769 delivered to foreign vessels in co-operative fishing arrangements.
5 Includes red, rock and bass, reedi, greenies, other rockfish, red snapper and silver perch.
6 Includes non-food fish, idiotfish and shark.
7 Includes other groundfish, portions, sticks and specialities, fish meal n.e.s, fish oil n.e.s., and solubles n.e.s.
8 Includes horse clams.
9 Includes scallops, squid, mussels, gooseneck barnacles, crayfish, snails, sea cucumbers, plankton, and other shellfish n.e.s..
10 Includes squid, scallops, mussels, sea cucumbers, gooseneck barnacles, and other shellfish n.e.s.
11 Includes 92 tonnes worth $300,000 caught in U.S. waters and landed in Canada by Canadian fishermen.
12 Includes eulachons, smelt, anchovies and other fish.
13 Includes eulachons, smelt and floating kelp.

Note: Salmon is reported in standard form, halibut is reported dressed head-off and all other fish are reported in round weight.

TABLE 2 - LANDED AND WHOLESALE VALUE OF FISH AND FISH PRODUCTS IN B.C.

1976 - 1987

	Excludes halibut and tuna landed by B.C. fishermen at U.S. ports and hake sold to foreign processors		Includes halibut and tuna landed by B.C. fishermen at U.S. ports and hake sold to foreign processors			
YEAR	LANDED VALUE ($'000)	WHOLESALE VALUE ($'000)	LANDED VALUE ($'000)	% CHANGE	WHOLESALE VALUE ($'000)	% CHANGE
1976	138,820	294,590	141,851	+ 78	297,621	+ 78
1977	165,005	359,905	167,905	+ 18	362,556	+ 22
1978	243,731	510,667	250,805	+ 49	517,741	+ 43
1979	330,019	563,181	332,972	+ 33	566,134	+ 9
1980	180,529	402,191	184,108	- 45	405,770	- 28
1981	232,358	523,754	236,156	+ 28	526,928	+ 30
1982	235,519	461,159	241,205	+ 2	466,845	- 11
1983	203,094	465,090	209,772	- 13	471,768	+ 1
1984	236,028	460,036	242,930	+ 16	466,938	- 1
1985	372,324[1]	722,243[2]	377,646	+ 55	727,565[2]	+ 56[2]
1986[3]	394,525[1]	759,341	404,687	+ 7	769,410	+ 6
1987	430,331[1]	796,627	452,577	+ 12	808,292	+ 5

1 Includes tuna caught by Canadian fishermen in U.S. waters and landed in Canada.

2 Revised data.

3 Includes the value of farmed salmonid production.

TABLE 3 - DISTRICT CATCH BY SPECIES - 1987 (LANDED WEIGHT IN TONNES)

Species	North[1] Coast	South Coast	Fraser Area	Total	Landed Value ($'000)
Chinook	1,915	2,527	113	4,555	30,527
Sockeye	5,429	7,654	1,632	14,715	87,381
Coho	2,424	4,908	25	7,357	33,747
Pink	19,770	5,793	302	25,865	33,479
Chum	6,484	4,413	51	10,948	26,779
Steelhead	67	6	1	74	147
Subtotal	36,089	25,301	2,124	63,514	212,060
Salmon Roe	-	1	-	1	3
TOTAL SALMON[2]	36,089	25,302	2,124	63,515	212,063
Herring	11,983	25,632	-	37,615	96,908
Herring Spawn on Kelp	-	171	23	194	10,444
TOTAL HERRING	11,983	25,803	23	37,809	107,352
Halibut[3]	4,068	683	-	4,751	24,310
Dogfish	308	3,200	259	3,767	1,539
Flounder	48	19	-	67	30
Hake[4]	-	5,785	7,327	13,112	1,722
Ling Cod	1,549	1,981	10	3,540	3,310
Pacific Cod	10,343	3,347	1	13,691	8,577
Pacific Ocean Perch	4,695	1,580	-	6,275	4,209
Pollock	9	346	506	861	251
Rockfish[5]	6,903	10,922	32	17,857	13,901
Sablefish	2,189	2,514	14	4,717	14,546
Skate	648	103	*	751	124
Soles	2,218	804	*	3,022	2,472
Turbot	777	334	-	1,111	347
Other Groundfish[6]	312	87	18	417	103
Groundfish Subtotal	29,999	31,022	8,167	69,188	51,131
Abalone	39	10	-	49	973
Clams[7]	142	4,488	4	4,634	7,083
Crabs	393	814	424	1,631	6,452
Geoducks	2,148	3,486	100	5,734	6,184
Octopus	28	100	2	130	381
Oysters	-	3,482	-	3,482	2,548
Shrimp and Prawns	207	2,847	210	3,264	8,935
Scallops	-	55	11	66	244
Sea Cucumbers	421	1,251	50	1,722	768
Sea Urchins	293	1,905	25	2,223	1,276
Other Shellfish[8]	*	250	*	250	459
Shellfish Subtotal	3,671	18,688	826	23,185	35,303

TABLE 3 - CONT'D

Species	North Coast	South Coast	Fraser Area	Total	Landed Value ($'000)
Eulachons	-	1	19	20	21
Smelt	-	-	2	2	5
Sturgeon	*	1	5	6	12
Tuna[9]	-	-	-	-	-
Other[10]	-	82	-	82	134
Other Subtotal	*	84	26	110	172
TOTAL[11]	85,810	101,582	11,166	198,558	430,331

1 Includes landings in the Taku/Stikine district.
2 Excludes production from salmon mariculture operations.
3 Excludes 693 tonnes of halibut valued at $4,016,110 landed at U.S. ports.
4 Excludes 47,601 tonnes of hake valued at $7,648,769 delivered to foreign vessels in co-operative fishing arrangements. An additional 21,454 tonnes was caught by foreign vessels in Canadian waters.
5 Includes red, rock and bass, reedi, greenies, other rockfish, red snapper and silver perch.
6 Includes non-food fish, idiotfish and shark.
7 Includes horse clams.
8 Includes mussels, snails, squid, plankton, crayfish and other shellfish N.E.S.
9 Excludes 92 tonnes worth $300,000 caught in U.S. waters and landed in Canada by Canadian fishermen.
10 Includes anchovies and other fish.
11 Includes direct deliveries by Canadian fishermen to U.S. ports.

* Less than 1 tonne reported.

Note: Salmon is reported in standard form, halibut is reported dressed head-off and all other fish are reported in round weight.

TABLE 4 - REGIONAL WHOLESALE VALUE OF B.C. FISHERIES PRODUCTION BY PRODUCT CATEGORY 1986 - 1987[1]

($000)

PRODUCT CATEGORY	LOWER MAINLAND		VANCOUVER IS.		SUNSHINE COAST		CENTRAL & NORTH COAST		TOTAL B.C.	
	1986	1987	1986	1987	1986	1987	1986	1987	1986	1987
Fresh	46,881	68,605	19,794	30,482	3,929	3,643	10,045	12,248	80,649	114,978
Frozen	162,616	169,817	36,503	47,011	675	1,976	60,148	62,096	259,942	280,900
Cured	79,988	160,401	8,966	12,212	54	686	38,283	35,722	127,291	209,021
Canned	190,040	115,904	4,471	2,566	-	-	83,407	53,222	277,921	171,692
Other	12,532	18,002	73	276	1	1	932	1,757	13,538	20,036
GRAND TOTAL	492,057	532,729	69,810	92,547	4,659	6,306	192,815	165,045	759,341	796,627

1 Excludes over-the-side hake sales, and halibut and tuna landed in U.S. ports but includes salmonid mariculture production.

II. SUMMARY BY SPECIES

A) SALMON

In terms of the salmon industry in British Columbia, 1987 marked a return to historic long-term averages. Salmon landings decreased by 39 percent from 100,242 tonnes in 1986 to 63,515 tonnes. The landed value decreased from $265.8 million to $212.1 million, a 20 percent change. This was due primarily to substantially reduced landings of sockeye and chum. Nevertheless chinook and to some extent pink landings continued to be strong for the second consecutive year. All species showed dramatic increases in average landed prices. Chinook also showed a dramatic 48 percent increase in landed price to $5.82 per kg in 1987. Sockeye continued its climb in landed price to $5.81 per kg a 25 percent increase over the previous year. Average chum landed prices rose by 63 percent from last year. In 1987, after the record years, sockeye dropped to below historic averages but still accounted for 41 percent of the total landed value of all salmon species.

Seine gear accounted for 44 percent of salmon landings, while troll gear was responsible for 24 percent and gillnet gear 32 percent. Seiners harvested large quantities of pink, chum and sockeye salmon. A significant amount of sockeye and chum, along with the majority of steelhead was landed on gillnet gear. Troll gear accounted for the majority of chinook and coho landings, along with 26 percent of the pink catch.

As a result of the reduced level of landings, the total 1987 salmon wholesale value of $425.6 million was down by 21 percent from the record of $536.2 million set in 1986. The total wholesale values of sockeye, coho, chum, pink and steelhead decreased substantially while chinook showed a significant increase. Despite the lower harvest, higher average prices paid for canned and frozen dressed sockeye and canned chum and pink also contributed to a relatively large wholesale value. Salmon production contributed 53 percent to the total wholesale value generated by the British Columbia fish processing industry in 1987, down by 17 percent from 1986.

Again in 1987, there was a shift in the mix of salmon products. Canned salmon accounted for 40 percent of the total salmon wholesale value, compare to 52 percent in 1986. Frozen salmon products contributed 45 percent to the 1987 salmon value, up from 37 percent last year. This shift is, as usual, due mainly to the changes in volumes and mix of salmon species harvested. In 1987 large quantities of pink, sockeye and chum were directed towards the canned market. However substantial quantities of these, especially of chum, were also directed towards the frozen dressed market along with the majority of the chinook and coho production.

In total, the 1987 canned salmon pack consisted of 1,008,682 standard cases, down from 1986 total of 1,853,775 cases. Compared to 1986, the 1987 pack represented a 46 percent decrease in volume and a 38 percent decrease in wholesale value.

In 1987, pink salmon accounted for 60 percent, sockeye 30, chum 6, coho 3, and others less than one percent of the number of cases produced. In terms of wholesale value, however, sockeye contributed 48 percent to the total canned salmon value, while pink accounted for 45 percent, chum 3 percent and coho 3 percent. Overall, the total wholesale value for all canned salmon was 4 percent greater than the reported total net selling value.

Fresh dressed salmon production was nearly evenly divided between head-on and head-off products, at 43 and 57 respectively, while most frozen dressed salmon was marketed in a head-off form. Frozen dressed, head-off salmon accounted for 67 percent of the total dressed production, with the highest price received for frozen dressed, head-off sockeye.

In 1987, data on specialty hot smoked salmon products was again included with other smoked products. Cold-smoked salmon accounted for 96 percent of the wholesale value of smoked salmon production up from 91 percent in the two previous years. The total wholesale value of these products increased to $21.4 million, up by 25 percent over the previous year and accounted for 5 percent of all salmon products.

Fresh, salted, and other products, as well as roe and salmon by-products were also processed. These different products accounted for approximately 10 percent of the total salmon wholesale value.

Prices for cold-smoked salmon continued to rise in 1987 with sockeye reaching $21.81 per kg.

TABLE 5 - LANDINGS OF SALMON BY SPECIES AND GEAR 1976 - 1987

(Round Weight in Tonnes)

	GILLNET GEAR									
	CHINOOK	SOCKEYE	COHO	PINK	CHUM	TOTAL[1]	VALUE	NUMBER OF DELIV.	AVERAGE CATCH PER DELIV.	AVERAGE VALUE PER DELIV.
	(t)	(t)	(t)	(t)	(t)	(t)	($'000)	('000)	(kg)	($)
1976	1,027	7,655	1,177	3,013	4,841	17,746	25,825	78	228	331
1977	1,129	10,793	1,357	5,470	3,229	22,028	34,416	83	265	415
1978	997	7,819	1,281	2,319	6,641	19,102	38,687	69	277	561
1979	886	7,435	774	2,146	2,151	13,430	34,796	52	258	669
1980	670	3,265	848	1,711	7,548	14,084	31,042	51	276	609
1981	652	9,031	562	4,660	3,182	18,153	39,222	53	342	740
1982	917	9,817	870	526	5,525	17,742	41,387	51	348	811
1983	594	4,472	531	3,886	2,575	12,100	20,586	46	263	448
1984	763	6,542	518	1,826	2,988	12,761	35,674	51	250	699
1985	525	13,461	857	4,012	6,211	25,218	67,387	70	360	962
1986	516	11,073	981	4,217	9,216	26,130	67,689	65	402	1,041
1987	271	6,619	380	4,464	4,236	16,027	54,327	47	341	1,156

	SEINE GEAR									
	CHINOOK	SOCKEYE	COHO	PINK	CHUM	TOTAL[1]	VALUE	NUMBER OF DELIV.	AVERAGE CATCH PER DELIV.	AVERAGE VALUE PER DELIV.
	(t)	(t)	(t)	(t)	(t)	(t)	($'000)	('000)	(kg)	($)
1976	492	4,395	1,197	12,790	6,044	24,925	26,712	14	1,780	1,908
1977	926	6,237	1,981	12,814	2,696	24,661	29,697	16	1,541	1,856
1978	886	11,107	1,108	12,326	8,901	34,337	57,796	13	2,641	4,446
1979	903	5,861	1,539	13,983	2,425	24,717	42,522	12	2,060	3,544
1980	588	4,327	1,252	9,650	8,972	24,796	41,854	12	2,066	3,488
1981	774	11,636	1,430	24,297	2,847	40,994	63,864	10	4,099	6,386
1982	780	12,617	1,245	3,148	9,147	26,952	51,818	10	2,695	5,181
1983	496	9,006	1,354	30,207	2,150	43,225	48,443	11	3,930	4,404
1984	444	5,791	843	7,811	5,603	20,514	38,399	13	1,578	2,953
1985	733	14,735	1,410	25,996	15,769	58,676	106,902	14	4,190	7,635
1986	580	12,944	1,776	23,679	14,152	53,156	101,972	14	3,797	7,284
1987	355	6,283	985	15,415	6,413	29,465	68,117	10	2,947	6,812

TABLE 5 - CONT'D

	TROLL GEAR									
	CHINOOK	SOCKEYE	COHO	PINK	CHUM	TOTAL[1]	VALUE	NUMBER OF DELIV.	AVERAGE CATCH PER DELIV.	AVERAGE VALUE PER DELIV.
	(t)	(t)	(t)	(t)	(t)	(t)	($'000)	('000)	(kg)	($)
1976	6,257	288	6,948	1,254	37	14,790	39,405	134	110	294
1977	5,467	358	6,519	6,439	107	18,893	44,612	146	129	303
1978	6,004	3,395	6,763	686	313	17,165	61,681	150	114	411
1979	5,056	1,236	8,029	8,567	175	23,067	83,215	163	142	511
1980	5,282	135	6,925	2,357	289	14,991	44,107	189	79	233
1981	4,490	333	5,522	9,296	128	19,774	54,984	164	121	335
1982	5,395	7,709	7,182	303	419	21,010	71,897	169	124	420
1983	4,288	848	8,576	5,445	148	19,334	42,056	170	114	247
1984	5,047	544	8,728	2,422	412	17,157	70,725	138	124	513
1985	4,211	3,373	6,710	7,692	1,666	23,669	72,381	124	191	584
1986	3,911	6,816	10,481	1,609	1,829	24,652	96,113	112	220	858
1987	4,623	2,133	7,050	7,042	351	21,203	89,616	84	252	1,067

1 Totals include steelhead.

2 1976-1983 values do not include year-end bonus or direct delivery payments. 1984-1987 values include year-end bonus payments. 1985 values include direct delivery payments.

TABLE 6 - SHARE OF SALMON LANDINGS BY SPECIES AND GEAR - 1987[1]

(Round Weight in Tonnes)

SPECIES	Gillnet Tonnes	Share %	Seine Tonnes	Share %	Troll Tonnes	Share %	Total Tonnes
Chinook	271	5.1	355	6.8	4,623	88.1	5,249
Sockeye	6,619	44.0	6,283	41.8	2,133	14.2	15,035
Coho	380	4.5	985	11.7	7,050	83.8	8,415
Pink	4,464	16.6	15,415	57.2	7,042	26.2	26,921
Chum	4,236	38.5	6,413	58.3	351	3.2	11,000
Steelhead	57	76.0	14	18.7	4	5.3	75
TOTAL	16,027	24.0	29,465	44.2	21,203	31.8	66,695

TABLE 7 - LANDED AND WHOLESALE VALUE OF SALMON BY PRODUCT TYPE 1976 - 1987

($'000)

	LANDED VALUE	CANNED	FRESH	FROZEN	ROE	OTHER	TOTAL WHOLESALE VALUE
1976	91,942	91,733	11,018	60,959	16,056	7,278	187,045
1977	109,176[1]	122,987	10,059	76,049	12,618	6,079	227,792
1978	158,686[1]	115,913	14,584	134,416	24,202	14,904	304,019
1979	161,113[1]	115,927	8,127	143,093	11,393	11,087	289,627
1980	117,149[1]	146,828	10,429	109,300	13,209	9,341	289,107
1981	158,226[1]	237,391	6,744	108,047	12,802	8,694	373,678
1982	165,207[1]	127,126	10,633	155,762	9,829	11,988	315,338
1983	111,097[1]	176,191	13,414	80,873	3,186	10,625	284,289
1984	144,814[1]	94,457	15,432	145,679	5,065	15,608	276,241
1985	246,696[1]	258,646	14,137	206,647	12,019	20,794	512,243
1986	265,778[1]	277,913	19,244	198,557	13,947	26,562	536,223
1987	212,063[1]	171,573	24,773	189,824	9,180	30,251	425,601

1 Includes salmon roe.

TABLE 8 - LANDED AND WHOLESALE VALUE OF SALMON BY SPECIES 1976 - 1987

	Quantity Landed in Tonnes (Round Weight)	Landed Value ($'000)	Average Landed Price ($/kg)	Wholesale Value ($'000)[1]	Landed Value as a Percent of Wholesale Value (%)
CHINOOK					
1976	7,776	22,919	2.95	29,314	78.2
1977	7,522	23,589	3.14	36,832	64.0
1978	7,887	29,461	3.74	35,897	82.1
1979	6,845	31,159	4.55	40,475	77.0
1980	6,540	24,307	3.72	38,421	63.3
1981	5,916	25,731	4.35	38,051	67.6
1982	7,092	31,205	4.40	41,490	75.2
1983	5,378	17,614	3.28	29,489	59.7
1984	6,254	37,318	5.97	45,861	81.4
1985	5,469	25,564	4.67	41,433	61.7
1986	5,007	19,658	3.93	31,206	63.0
1987	5,249	30,527	5.82	41,489	73.6
SOCKEYE					
1976	12,339	20,656	1.67	45,701	45.2
1977	17,388	32,218	1.85	65,497	49.2
1978	22,321	55,181	2.47	107,817	51.2
1979	14,532	43,307	2.98	81,008	53.5
1980	7,727	18,222	2.36	47,416	38.4
1981	21,000	54,577	2.60	122,073	44.7
1982	30,143	78,860	2.62	155,363	50.8
1983	14,326	36,617	2.56	83,988	43.6
1984	12,877	45,976	3.57	84,191	54.6
1985	31,569	120,428	3.81	206,338	58.4
1986	30,833	143,270	4.65	237,871	60.2
1987	15,035	87,381	5.81	147,997	59.0
COHO					
1976	9,322	21,331	2.29	29,906	71.3
1977	9,857	22,671	2.30	35,396	64.0
1978	9,152	27,269	2.98	41,023	66.5
1979	10,342	44,063	4.26	57,203	77.0
1980	9,025	23,078	2.56	43,568	53.0
1981	7,514	22,009	2.93	37,984	57.9
1982	9,297	26,144	2.81	42,582	61.4
1983	10,461	22,504	2.15	39,306	57.3
1984	10,089	35,532	3.52	59,624	59.6
1985	8,977	26,555	2.96	48,362	54.9
1986	13,238	39,264	2.97	66,090	59.4
1987	8,415	33,747	4.01	61,803	54.6

TABLE 8 - CONT'D

	Quantity Landed in Tonnes (Round Weight)	Landed Value ($'000)	Average Landed Price ($/kg)	Wholesale Value ($'000)[1]	Landed Value as a Percent of Wholesale Value (%)
PINK					
1976	17,056	12,124	0.71	37,085	32.7
1977	24,723	22,262	0.90	54,767	40.6
1978	15,331	12,835	0.84	37,852	33.9
1979	24,696	29,685	1.20	76,867	38.6
1980	13,718	15,118	1.10	50,425	30.0
1981	38,253	45,822	1.20	117,302	39.1
1982	3,977	3,195	0.80	13,675	23.4
1983	39,538	26,651	0.67	103,767	25.7
1984	12,059	10,742	0.89	38,195	28.1
1985	37,700	38,979	1.03	115,160	33.8
1986	29,505	25,691	0.87	96,812	26.5
1987	26,921	33,479	1.24	102,293	32.7
CHUM					
1976	10,922	14,835	1.36	27,075	54.8
1977	6,032	7,905	1.31	16,623	47.6
1978	15,855	33,336	2.10	50,878	65.5
1979	4,751	12,243	2.58	21,262	57.6
1980	16,809	36,197	2.15	63,960	56.6
1981	6,157	9,781	1.59	21,653	45.2
1982	15,091	25,528	1.69	42,768	59.7
1983	4,899	7,605	1.55	14,735	51.6
1984	9,003	14,938	1.66	34,835	42.9
1985	23,646	34,755	1.47	75,907	45.8
1986	25,197	37,614	1.49	77,904	48.3
1987	11,000	26,779	2.43	55,926	47.9
STEELHEAD					
1976	47	77	1.64	139	55.4
1977	59	80	1.36	223	35.9
1978	57	82	1.44	258	31.8
1979	48	96	2.00	250	38.4
1980	52	81	1.56	247	32.8
1981	81	147	1.81	387	38.0
1982	104	170	1.63	520	32.7
1983	57	94	1.65	308	30.5
1984	150	292	1.95	1,032	28.3
1985	202	389	1.92	857	45.4
1986	158	277	1.75	895	30.9
1987	75	147	1.96	445	33.0

1 Revised. Does not include the wholesale value derived from salmon caught in U.S. waters and canned in British Columbia.

TABLE 9 - WHOLESALE VALUE OF SALMON BY SPECIES 1976 - 1987

($'000)

	CHINOOK	SOCKEYE	COHO	PINK	CHUM	STEEL-HEAD	NOT CLASSIFIED	TOTAL WHOLESALE VALUE
1976	29,314	45,701	29,906	37,085	27,075	139	17,825	187,045
1977	36,832	65,579	35,431	59,217	16,676	223	13,834	227,792
1978	35,897	107,817	41,023	39,544	50,878	258	28,602	304,019
1979	40,475	81,008	57,203	76,867	21,262	250	12,562	289,627
1980	38,427	68,224	43,645	58,655	64,608	248	15,300	289,107
1981	38,073	131,030	38,433	128,553	22,271	387	14,931	373,678
1982	41,495	158,492	42,595	17,813	42,887	520	11,536	315,338
1983	29,490	84,996	39,384	109,732	14,777	308	5,602	284,289
1984	45,863	86,165	59,772	44,761	35,815	1,032	2,833	276,241
1985	41,435	206,810	48,762	135,376	76,705	857	2,298	512,243
1986	31,235	244,337	68,307	108,403	79,707	895	3,339	536,223
1987	41,505	154,162	63,025	106,330	56,540	445	3,594	425,601

TABLE 10 - PRODUCTION AND UTILIZATION OF SALMON BY SPECIES 1986 - 1987

UNIT	1986 QUANTITY	1986 VALUE[1] ($'000)	1986 AVERAGE[2] PRICE ($)	1987 QUANTITY	1987 VALUE[1] ($'000)	1987 AVERAGE[2] PRICE ($)
CHINOOK						
Canned.....48-lb. cases	6,417	663	103.26	3,667	378	102.74
Fresh Round.....000 kg	*	*	-	*	*	-
Fresh Dressed....000 kg	491	3,174	6.46	496	4,461	9.00
Frozen Round.....000 kg	-	-	-	-	-	-
Frozen Dressed...000 kg	3,020	23,760	7.87	3,323	31,846	9.58
Frozen Steaks....000 kg	5	43	8.13	*	*	-
Salted.....000 kg	*	*	-	62	827	13.37
Smoked.....000 kg	228	3,279	14.37	203	3,966	19.56
Roe.....000 kg	54	316	5.80	4	27	7.65
Other.....000 kg	-	-	-	-	-	-
TOTAL	-	31,235	-	-	41,505	-
SOCKEYE						
Canned.....48-lb. cases	599,320	141,505	236.11	309,597	82,458	266.34
Fresh Round.....000 kg	*	*	-	*	*	-
Fresh Dressed....000 kg	678	5,499	8.11	494	4,475	9.05
Frozen Round.....000 kg	-	-	-	-	-	-
Frozen Dressed...000 kg	9,079	78,372	8.63	4,819	50,110	10.40
Frozen Steaks....000 kg	41	458	11.19	18	251	13.56
Salted.....000 kg	638	6,208	9.72	381	4,435	11.64
Smoked.....000 kg	522	9,090	17.40	520	11,341	21.81
Roe.....000 kg	566	3,205	5.66	154	1,092	7.10
Other.....000 kg	-	-	-	*	*	-
TOTAL	-	244,337	-	-	154,162	-

TABLE 10 - CONT'D

	1986			1987		
UNIT	QUANTITY	VALUE[1] ($'000)	AVERAGE[2] PRICE ($)	QUANTITY	VALUE[1] ($'000)	AVERAGE[2] PRICE ($)
COHO						
Canned.....48-lb. cases	82,375	14,631	177.61	29,546	5,220	176.66
Fresh Round.....000 kg	*	*	-	*	*	-
Fresh Dressed....000 kg	1,011	5,806	5.74	974	7,134	7.32
Frozen Round.....000 kg	-	-	-	*	*	-
Frozen Dressed...000 kg	6,852	45,794	6.68	5,642	48,066	8.52
Frozen Steaks....000 kg	40	401	9.98	84	950	11.35
Salted.....000 kg	*	*	-	*	*	-
Smoked.....000 kg	91	1,288	14.08	30	603	19.98
Roe.....000 kg	59	387	6.51	76	1,052	13.88
Other.....000 kg	-	-	-	*	*	-
TOTAL	-	68,307	-	-	63,025	-
PINK						
Canned.....48-lb. cases	900,782	100,270	111.32	602,539	77,154	128.05
Fresh Round.....000 kg	*	*	-	1	2	2.12
Fresh Dressed....000 kg	275	755	2.74	728	2,760	3.79
Frozen Round.....000 kg	-	-	-	-	-	-
Frozen Dressed...000 kg	1,624	5,091	3.13	5,507	23,447	4.26
Frozen Steaks....000 kg	*	*	-	*	*	-
Salted.....000 kg	*	*	-	-	-	-
Smoked.....000 kg	64	697	10.93	84	1,250	14.84
Roe.....000 kg	566	1,590	2.81	292	1,717	5.88
Other.....000 kg	-	-	-	-	-	-
TOTAL	-	108,403	-	-	106,330	-

TABLE 10 - CONT'D

UNIT	1986 QUANTITY	1986 VALUE[1] ($'000)	1986 AVERAGE[2] PRICE ($)	1987 QUANTITY	1987 VALUE1 ($'000)	1987 AVERAGE[2] PRICE ($)
CHUM						
Canned.....48-lb. cases	264,282	20,784	78.64	62,909	6,309	100.29
Fresh Round.....000 kg	395	455	1.15	285	1,099	3.86
Fresh Dressed....000 kg	1,252	3,401	2.72	1,026	4,817	4.70
Frozen Round.....000 kg	-	-	-	*	*	-
Frozen Dressed...000 kg	11,420	42,999	3.77	6,079	32,544	5.35
Frozen Steaks....000 kg	133	842	6.31	308	2,264	7.36
Salted.....000 kg	*	*	-	*	*	-
Smoked.....000 kg	243	2,777	11.42	331	4,215	12.73
Roe.....000 kg	1,148	8,449	7.36	478	5,292	11.07
Other.....000 kg	-	-	-	*	*	-
TOTAL	-	79,707	-	-	56,540	-
STEELHEAD						
Canned.....48-lb. cases	599	60	99.12	424	54	126.64
Fresh Round.....000kg	*	*	-	*	*	-
Fresh Dressed....000kg	11	64	5.85	3	14	4.75
Frozen Round.....000kg	-	-	-	-	-	-
Frozen Dressed...000kg	157	752	4.77	56	316	5.62
Frozen Steaks....000kg	-	-	-	-	-	-
Smoked.....000kg	1	19	15.86	5	61	12.93
Other.....000kg	-	-	-	-	-	-
TOTAL	-	895	-	-	445	-

TABLE 10 - CONT'D

ALL SALMON[3]	UNIT	1986 QUANTITY	1986 VALUE[1] ($'000)	1986 AVERAGE[2] PRICE ($)	1987 QUANTITY	1987 VALUE ($'000)	1987 AVERAGE PRICE ($)
Canned	48-lb.cases	1,853,775	277,913	149.92	1,008,682	171,573	170.09
Fresh Round	000kg	412	545	1.32	288	1,112	3.87
Fresh Dressed	000kg	3,718	18,699	5.03	3,722	23,661	6.36
Frozen Round	000kg	*	*	-	*	*	-
Frozen Dressed	000kg	32,152	196,768	6.12	25,426	186,329	7.33
Frozen Steaks	000kg	229	1,789	7.81	413	3,495	8.46
Salted	000kg	718	7,053	9.82	452	5,366	11.87
Smoked	000kg	1,149	17,150	14.93	1,173	21,436	18.28
Salmon Roe[4]	000kg	2,393	13,947	5.83	1,004	9,180	9.15
Other Specialty Products		-	-	-	-	-	-
Other[5]		-	2,359	-	-	3,449	-
TOTAL		-	536,223	-	-	425,601	-

1 Note: Any discrepancies in VALUE($'000) figures are due to rounding.

2 Average Price:
Canned Salmon $'s per 48-lb. case.
Other Salmon Products $'s per kg.
Value divided by quantity may not equal average price due to rounding.

3 Note: The total value of "ALL SALMON" includes values for products including offal, oil, meal, etc. which could not be allocated to particular species. Also included are the value of items where less than three companies are reported. In a number of cases, however, confidential data is included if the total processed product represented by the confidential data is accounted for by three or more companies.

4 Includes roe not broken down by species.

5 Includes offal, offal meal, oil, heads, bait, milts, other products and the value of items where less than three companies reported.

* Confidential. Fewer than three companies reporting.

TABLE 11 - B.C. CANNED SALMON PRODUCTION BY REGION - 1987[1]

(48 lb. Cases)

AREA	CHINOOK	SOCKEYE	COHO	PINK	CHUM	STEELHEAD	TOTAL
North Coast	1,138	63,438	7,563	267,664	13,042	84	352,929
South Coast & Fraser Area	2,529	246,159	21,983	334,875	49,867	340	655,753
TOTAL	3,667	309,597	29,546	602,539	62,909	424	1,008,682

[1]Does not include imported salmon custom canned in B.C. for U.S. companies.

TABLE 12 - COMPARISON OF THE 1987 SALMON PACK TO THE 12 YEAR AVERAGE PACK

1976 - 1987

	1976 - 1987 Average (48 lb. cases)	1987 (48 lb. cases)	Difference (%)
Sockeye	440,578	309,597	-30
Coho	56,310	29,546	-48
Pink	639,148	602,539	- 6
Chum	112,739	62,909	-44
Other	9,461	4,091	-57
TOTAL	1,258,236	1,008,682	-20

TABLE 13 - BRITISH COLUMBIA CANNED SALMON PRODUCTION : QUANTITY AND VALUE BY SPECIES - 1987[1]

SPECIES	QUANTITY (48 lb. Cases)	WHOLESALE VALUE ($'000)	AVG. PRICE $/48 lb. Case[2]	NET SELLING VALUE ($'000)	AVG. PRICE $/48 lb. Case[2]
Red Chinook	1,410	170	120.04	161	114.34
Pink Chinook	1,788	166	92.89	159	88.75
White Chinook	469	42	88.23	40	84.85
Sockeye	309,597	82,458	266.34	80,076	258.65
Coho	29,546	5,220	176.66	5,108	172.89
Pink	602,539	77,154	128.05	73,548	122.06
Chum	62,909	6,309	100.29	5,702	90.65
Steelhead	424	54	126.64	50	118.56
TOTAL	1,008,682	171,573	-	164,844	-

1 Fish processors were requested to report both a final wholesale value and a net selling value for their canned salmon production. The final wholesale value represents gross sales based upon company invoices. The net selling value refers to the final selling price after promotions, case allowances, cash discounts and other trade discounts which may apply.

2 Value divided by quantity may not equal average price due to rounding.

TABLE 14 - BRITISH COLUMBIA CANNED SALMON PACK BY YEAR 1976 - 1987

(48 lb. Cases)

	CHINOOK	SOCKEYE	COHO	PINK	CHUM	STEELHEAD	TOTAL
1976	11,173	376,047	69,850	483,054	85,540	166	1,025,830
1977	29,569	494,172	74,180	686,911	61,309	826	1,346,967
1978	8,916	485,748	53,960	456,058	121,487	707	1,126,876
1979	12,953	295,858	43,061	569,337	33,689	327	955,225
1980	7,599	368,844	88,217	472,462	176,884	420	1,114,426
1981	7,839	622,490	61,333	1,020,545	87,866	472	1,800,545
1982	7,661	548,998	47,246	140,415	74,127	384	818,831
1983	4,306	371,483	60,560	996,727	47,120	331	1,480,527
1984	2,709	230,798	25,832	338,474	68,579	276	666,668
1985	4,769	583,579	39,559	1,002,477	269,070	1,025	1,900,479
1986	6,417	599,320	82,375	900,782	264,282	599	1,853,775
1987	3,667	309,597	29,546	602,539	62,909	424	1,008,682

TABLE 15 - AVERAGE WHOLESALE PRICE OF BRITISH COLUMBIA CANNED SALMON BY YEAR 1976 - 1987

($/48 lb. Case)

YEAR	CHINOOK	SOCKEYE	COHO	PINK	CHUM	STEELHEAD
1976	63.66	115.00	95.80	73.18	66.89	65.01
1977	87.86	113.61	104.00	75.82	71.49	81.11
1978	73.01	128.69	105.43	82.89	75.81	70.19
1979	82.25	159.06	132.16	103.53	93.12	93.49
1980	93.25	168.87	134.60	114.41	100.98	98.73
1981	105.01	175.17	145.55	107.87	96.34	104.22
1982	114.61	177.12	145.87	115.96	78.11	111.98
1983	103.02	178.46	136.61	97.04	93.83	112.52
1984	103.57	198.87	146.77	112.35	93.82	89.46
1985	105.87	201.61	150.18	111.38	84.69	94.39
1986	103.26	236.11	177.61	111.32	78.64	99.12
1987	102.74	266.34	176.66	128.05	100.29	126.64

TABLE 16 - QUANTITY AND WHOLESALE VALUE OF BRITISH COLUMBIA DRESSED SALMON PRODUCTION BY SPECIES - 1987[1]

	FRESH DRESSED						FROZEN DRESSED						TOTAL		
	Head-On			Head-Off			Head-On			Head-Off			Fresh/Frozen Dressed		
SPECIES	000 kg	$000	$/kg	000 kg	$000	$/kg	000 kg	$000	$/kg	000 kg	$000	$/kg	000 kg	$000	$/kg
Red Chinook	288	2,693	9.34	183	1,620	8.87	367	3,324	9.07	2,685	26,550	9.89	3,523	34,187	9.70
Pink Chinook	2	13	5.95	2	9	4.35	3	33	9.82	49	388	7.93	56	443	7.91
White Chinook	9	46	5.37	12	80	6.73	7	40	5.35	212	1,511	7.13	240	1,677	6.99
Sockeye	351	3,192	9.09	143	1,283	8.96	2,169	22,056	10.17	2,650	28,054	10.59	5,313	54,585	10.27
Coho	691	5,017	7.26	283	2,117	7.48	1,621	11,593	7.15	4,021	36,473	9.07	6,616	55,200	8.34
Pink	240	953	3.98	489	1,807	3.70	1,315	5,332	4.05	4,192	18,115	4.32	6,236	26,207	4.20
Silver Brite Chum	22	127	5.85	887	4,134	4.66	54	296	5.49	1,789	10,666	5.96	2,752	15,223	5.53
Semi Brite Chum	7	30	4.39	61	316	5.20	231	1,003	4.34	2,166	12,395	5.72	2,465	13,744	5.58
Dark Chum	4	18	4.47	46	192	4.21	25	79	3.19	1,813	8,105	4.47	1,888	8,394	4.45
Steelhead	2	11	4.61	-[3]	3	5.48	43	240	5.65	14	76	5.53	59	330	5.59
TOTAL[2]	1,616	12,100	-	2,106	11,561	-	5,835	43,996	-	19,591	142,333	-	29,148	209,990	-

[1] Excludes farm raised salmon.
[2] Excludes products that were reported by less than three companies.
[3] Less than 500 kg and $500.
* Confidential. Fewer than three companies reporting.

Note: Value divided by quantity may not equal average price due to rounding.

TABLE 17 - FROZEN DRESSED SALMON PRODUCTION IN B.C. BY YEAR 1976-1987[1]

(Tonnes)

	CHINOOK	SOCKEYE	COHO	PINK	CHUM	STEELHEAD
1976	4,008	469	4,569	529	5,445	33
1977	4,318	1,786	5,153	2,469	2,824	31
1978	4,478	5,224	4,974	406	8,370	41
1979	4,247	4,650	6,827	4,884	3,268	36
1980	3,745	817	4,388	1,299	8,572	33
1981	3,738	2,962	4,196	5,686	2,824	56
1982	4,013	9,757	5,425	413	8,643	86
1983	2,737	2,133	5,722	4,277	2,217	53
1984	3,985	3,574	7,219	1,746	5,523	149
1985	3,513	9,241	5,627	6,147	10,816	137
1986	3,020	9,079	6,852	1,624	11,420	157
1987	3,323	4,819	5,642	5,507	6,079	56

TABLE 18 - AVERAGE WHOLESALE PRICE OF FROZEN DRESSED SALMON BY YEAR 1976-1987 [1]

($/kg)

	CHINOOK	SOCKEYE	COHO	PINK	CHUM	STEELHEAD
1976	4.96	3.64	4.20	2.71	3.38	3.22
1977	5.97	4.41	4.82	2.62	3.67	3.58
1978	6.06	6.50	6.48	3.51	4.53	4.74
1979	7.42	6.06	7.05	3.44	5.14	5.64
1980	7.61	5.71	6.15	3.44	5.07	5.71
1981	8.30	6.22	6.41	3.15	4.43	5.76
1982	8.33	5.36	6.17	3.15	3.97	4.89
1983	7.51	5.24	4.91	2.58	3.87	5.00
1984	9.31	7.19	7.12	3.20	4.30	5.81
1985	9.78	7.52	6.84	3.11	3.93	5.06
1986	7.87	8.63	6.68	3.13	3.77	4.77
1987	9.58	10.40	8.52	4.26	5.35	5.62

1 Includes both head-on and head-off products. See Table 16 for 1987 average prices of head-on and head-off products. Excludes farm raised salmon.

TABLE 19 - FRESH DRESSED SALMON PRODUCTION IN B.C. BY YEAR 1976-1987[1]

(Tonnes)

	CHINOOK	SOCKEYE	COHO	PINK	CHUM	STEELHEAD
1976	1,212	136	896	87	371	6
1977	752	187	444	244	404	6
1978	535	486	307	35	239	1
1979	530	130	370	363	31	1
1980	865	113	744	44	90	3
1981	485	128	357	144	71	2
1982	604	499	360	43	483	3
1983	853	602	557	685	260	1
1984	653	705	578	166	255	19
1985	363	718	513	803	273	9
1986	491	678	1,011	275	1,252	11
1987	496	494	974	728	1,026	3

TABLE 20 - AVERAGE WHOLESALE PRICE OF FRESH DRESSED SALMON BY YEAR 1976-1987

($/kg)

	CHINOOK	SOCKEYE	COHO	PINK	CHUM	STEELHEAD
1976	4.36	3.09	3.98	2.57	3.47	3.60
1977	4.39	3.03	3.73	2.13	1.84	4.05
1978	5.31	5.86	5.23	2.34	4.54	3.73
1979	6.50	5.72	6.17	1.81	5.07	4.41
1980	5.43	4.62	5.14	2.93	3.35	4.23
1981	6.46	5.76	5.68	2.62	3.41	4.49
1982	6.92	4.99	4.78	2.73	3.62	3.97
1983	6.29	4.75	4.49	2.30	3.06	4.62
1984	8.03	6.08	6.24	2.40	3.96	5.87
1985	7.89	6.87	5.79	2.73	3.14	5.17
1986	6.46	8.11	5.74	2.74	2.72	5.85
1987	9.00	9.05	7.32	3.79	4.70	4.75

1 Includes both head-on and head-off products. See Table 16 for 1987 average prices of head-on and head-off products. Excludes farm raised salmon.

TABLE 21 - QUANTITY AND WHOLESALE VALUE OF BRITISH COLUMBIA HOT AND COLD SMOKED SALMON - 1987

	HOT SMOKED			COLD SMOKED			TOTAL		
SPECIES	Tonnes	$'000	Avg.$/kg	Tonnes	$'000	Avg.$/kg	Tonnes	$'000	Avg.$/kg
Chinook	35	329	9.49	168	3,637	21.64	203	3,966	19.54
Sockeye	10	187	17.88	510	11,154	21.89	520	11,341	21.81
Coho	1	19	12.27	29	584	20.40	30	603	19.45
Pink	2	29	11.76	82	1,221	14.94	84	1,250	14.37
Chum	32	238	7.33	299	3,977	13.32	331	4,215	12.73
Steelhead	*	*	7.31	2	43	18.92	2	43	15.25
TOTAL	80	802	-	1,090	20,616	-	1,170	21,418	-

* Confidential. Fewer than three companies reporting.

Note: Value divided by quantity may not equal average price due to rounding. Product totals do not include confidential data.

B. HERRING

In 1987, total herring landings increased by 129 percent from 16,491 tonnes to 37,809 tonnes. The total landed value, also rose by a dramatic 132 percent over the same period, from $46.2 million to $107.4 million.

Specifically, roe herring landings rose from 15,732 tonnes in 1986 to 37,029 tonnes, an increase of 135 percent. This increase was primarily due to the reopening of the West Coast of Vancouver Island, as a result strengthening stocks. The landed value also grew by 134 percent from $45.6 million to $106.8 million. Food and bait herring landings also showed a minor increase in 1987, from 759 to 780 tonnes. However, the landed value dropped from $599 thousand to $528 thousand, a decrease of 12 percent.

The total wholesale value of herring production in 1987 was $173.7 million, an increase of 97 percent compared to $88.3 million in 1986. The wholesale value of herring roe production was $170.1 million, up by 99 percent from 1986. The average price declined from $30.66/kg to $26.79/kg, a decrease of 13 percent. Combined roe herring production, including herring meal, oil and spawn on kelp, accounted for about 97 percent of the total wholesale value of herring production for the fourth consecutive year. The wholesale value of herring frozen for food was $545 thousand while bait was valued at $1.9 million. Frozen food and bait herring in 1987 accounted for about 2 percent, as it has for the past five years. The value of other herring products, including fresh, kippered snacks, dry-salted, and pickled, totalled $1.5 million or 1 percent of the total.

TABLE 22 - ROE HERRING LANDINGS AND WHOLESALE VALUE OF ROE HERRING PRODUCTS 1976 - 1987

	LANDINGS[1] (Tonnes)	LANDED VALUE[1] ($'000)	WHOLESALE VALUE ROE ($'000)	SPAWN ON KELP ($'000)	FROZEN FOR ROE ($'000)	TOTAL WHOLESALE VALUE[4] ($'000)
1976	78,832	23,333	52,196 [2]	597	6,444	61,848
1977	73,485	29,542	73,292	1,407	1,405	79,799
1978	63,408	52,933	130,743	2,521	3,979	141,508
1979	37,480	126,866	182,304	5,011	5,163	195,387
1980	16,414	26,357	33,074	2,448	1,058	38,297
1981	29,486	35,928	69,946	3,308	-[3]	74,198
1982	27,658	35,479	76,963	3,900	-	83,057
1983	39,155	52,902	98,094	6,455	-	107,946
1984	32,795	43,645	88,090	4,508	-[3]	96,058
1985	24,588	62,050	91,792	5,699	-	100,115
1986	15,732	45,610	77,474	6,372	-	85,454
1987	37,029	106,824	155,074	10,444	-	170,132

1 Includes spawn on kelp (1976 - 1987).
2 Includes spawn off nets.
3 Confidential - fewer than three companies reporting. Included in the total wholesale value.
4 Includes roe herring by-products.

TABLE 23 - FOOD AND BAIT HERRING LANDINGS AND WHOLESALE VALUE OF FOOD AND BAIT HERRING PRODUCTS 1976 - 1987

	LANDINGS (Tonnes)	LANDED VALUE ($'000)	WHOLESALE VALUE FROZEN FOR FOOD ($'000)	BAIT ($'000)	TOTAL VALUE[1] ($'000)
1976	2,329	542	2,207	172	3,698
1977	23,805	4,156	8,353	449	10,265
1978	18,145	4,194	9,484	1,420	13,523
1979	6,181	2,131	3,204	2,133	6,546
1980	8,909	2,891	7,207	1,597	9,919
1981	8,663	2,177	5,516	1,480	8,253
1982	1,117	450	1,010	1,463	3,391
1983	892	491	418	1,838	3,104
1984	1,080	720	125	1,920	2,898
1985	1,367	1,055	68	2,012	3,017
1986	759	599	256	1,494	2,833
1987	780	528	545	1,945	3,518

1 Includes other food and bait herring products.

C. HALIBUT

The halibut catch originating in Canadian waters and delivered to British Columbia ports increased by 13 percent in 1987 from 4,201 tonnes to 4,751 tonnes. The increase in landed value was more dramatic, rising from $18.8 to $24.3 million, an increase of 29 percent. In addition to these landings, 693 tonnes of halibut valued at $4,016,110 was caught in Canadian waters and delivered by Canadian fishermen to U.S. ports. This compares to 1,188 tonnes, worth approximately $5.7 million, delivered to U.S. ports in the preceding year. The total catch by British Columbia fishermen was 5,444 tonnes, valued at $28.3 million. The overall landed quantity increased by 1 percent, while the total landed value increased by 16 percent. The larger catch reflects the continued strengthening of Pacific halibut stocks, which lead the International Pacific Halibut Commission to once again increase the catch limit in 1987. The substantial increase in landed value reflects a continued increase in the landed price paid to fishermen during the past year - the third increase in as many years, returning prices to historic levels.

The total wholesale value of halibut processed in British Columbia was $33.9 million in 1987, an increase of 33 percent over 1986. Frozen dressed halibut was still the major product marketed with a wholesale value of $18.3 million, accounting for 54 percent of the total wholesale value. However, fresh dressed halibut, with a value of $13.8 million, increased its share of the production from 32 percent to 41 percent. Halibut fillets, steaks and "other" products were also processed. Including halibut landed by B.C. fishermen and delivered to U.S. ports, the total 1987 wholesale value was up by 21 percent from $31.2 million in 1986 to $37.9 million.

TABLE 24 - LANDINGS AND WHOLESALE VALUE OF HALIBUT IN B.C.[1]

1976 - 1987

	TOTAL LANDINGS (Tonnes)	LANDED VALUE ($'000)	AVG.LANDED PRICE ($)/KG	WHOLESALE VALUE ($'000)
1976	4,318	11,974	2.77	15,347 [2]
1977	2,818	8,278	2.94	9,756
1978	2,294	10,001	4.36	12,827
1979	2,410	14,004	5.81	17,692
1980	2,668	7,341	2.75	9,962
1981	2,233	6,592	2.95	10,548
1982	1,690	4,715	2.79	5,488
1983	1,865	6,381	3.42	9,268
1984	3,110	7,222	2.32	11,640
1985	3,687	10,704	2.90	15,723
1986	4,201	18,765	4.47	25,521
1987	4,751	24,310	5.12	33,881

1 Not including Canadian landings of halibut in Alaska and Washington.
2 Includes the value of specialty items such as fish and chips, portions, fish sticks, etc.

D. GROUNDFISH

Domestic groundfish landings continued to increase in 1987, from 51,670 tonnes to 69,188 tonnes, a rise of 34 percent. The landed value increased by 38 percent from $37.0 million to $51.1 million. The landed values of virtually all species of groundfish showed at least modest increases. Specifically pacific cod demonstrated a four-fold rise while dogfish, hake, turbot and pollock also registered large increases. The only species exhibiting a decrease was skate. Included in "other groundfish" are idiotfish, shark and some non-food fish.

The total wholesale value of groundfish production increased by 35 percent over the 1986 value of $71.4 million, to $96.7 million. Pacific cod displayed a dramatic increase in wholesale value, rising from $5.5 million in 1986 to $17.3 million, an increase of over 200 percent. Rockfish continued to increase in value and accounts for 31 percent of the total groundfish wholesale value. The wholesale value of sablefish rose again slightly from $14.1 million in 1986 to $17.0 million. Another significant increase in wholesale value was demonstrated by hake products which reached $3.4 million, up by over 300 percent from $869 thousand. The wholesale values of all the other species of groundfish, except sole and flounder, increased slightly. Pollock showed a significant 37 percent jump in wholesale value over last year. It should be noted that a small amount of processed product was derived from imported groundfish.

TABLE 25 - COMPARATIVE WHOLESALE VALUES OF MAJOR GROUNDFISH SPECIES

1985 - 1987

SPECIES	1985 ($'000)	1986 ($'000)	1987 ($'000)
Sole	5,189	5,834	5,752
Rockfish[1]	18,501	27,957	29,495
Pacific Cod	3,590	5,539	17,284
Ling Cod	8,853	7,205	7,569
Sablefish	14,889	14,140	16,953
Flounder	73	131	90
Skate	131	217	399
Pollock	2,023	2,919	4,008
Turbot	1,526	1,358	1,358
Hake[2]	837	869	3,414
Dogfish	1,809	1,327	2,464
Other Groundfish[3]	3,311	3,909	7,864
TOTAL	60,732	71,405	96,650

1 Includes Pacific ocean perch, red snapper and other rockfish.
2 Excludes over-the-side sales to foreign vessels in co-operative fishing arrangements.
3 Includes other groundfish, portions, sticks and specialties, and groundfish meal and oil.

Domestic hake landings do not include cooperative fishing arrangements with foreign nations. In 1987, 47,601 tonnes worth approximately $7.6 million were purchased by the Soviet Union, Poland and Korea from Canadian fishermen. The overall increase in landings from 1986 illustrates the fact that Korea began its first year of participation. Since the initiation of over-the-side sales of hake to foreign nations, 1985 was the only year in which both the landings and landed values decreased. This year indicates a return to the historical trend of annually increased landings.

TABLE 26 - OVER-THE-SIDE SALES OF PACIFIC HAKE TO FOREIGN NATIONS BY YEAR[1]

1978 - 1987

	POLAND		SOVIET UNION		GREECE		KOREA		TOTAL	
	Tonnes	$'000	Tonnes	$'000	Tonnes	$'000	Tonnes	$'000	Tonnes	$'000
1978	1,814	240	-	-	-	-	-	-	1,814	240
1979	3,102	445	1,131	162	-	-	-	-	4,233	607
1980	4,560	739	4,300	614	3,355	609	-	-	12,215	1,962
1981	4,998	826	7,232	1,190	4,929	894	-	-	17,159	2,910
1982	10,279	1,714	9,397	1,550	-	-	-	-	19,676	3,264
1983	13,465	2,270	14,192	2,363	-	-	-	-	27,657	4,633
1984	9,214	1,609	19,692	3,044	-	-	-	-	28,906	4,653
1985	13,306	2,248	-	-	-	-	-	-	13,306	2,248
1986	13,494	1,962	16,642	2,417	-	-	-	-	30,136	4,379
1987	26,514	4,260	18,231	2,930	-	-	2,856	459	47,601	7,649

[1] Does not include domestic hake catch or national allocations to the Soviet Union, Poland and Japan.

E. SHELLFISH

Shellfish landings increased from 16,729 tonnes in 1986 to 23,185 tonnes. This 39 percent increase reflects the overall trend towards either stable or slight increases in landings for most shellfish species. The only shellfish species to show decreases in reported landings in 1987 was abalone. The total landed value was also up significantly, from $23.9 million to $35.3 million, an increase of 48 percent. The landed values for all individual species followed their landings and therefore rose. Abalone, despite a decrease in harvest, rose by 33 percent in landed value. Clams, and shrimp and prawns showed dramatic increases in landed value at 83 and 80 percent respectively.

The total wholesale value of shellfish production increased by 60 percent from $34.9 million to $56.0 million in 1987. All species showed at least a modest increase in wholesale value in 1987. Clams, including geoducks, accounted for 40 percent, crab 16 percent, shrimp and prawns 21 percent, sea urchins 9 percent and oysters 7 percent. Abalone, mussels, octopus, scallops, sea cucumbers, squid and other shellfish accounted for the remaining 7 percent. Sea cucumber products demonstrated a tremendous increase with a three-fold rise over 1986. Sea urchin products also showed an increase but a significant portion of this originated from outside B.C. waters.

TABLE 27 - COMPARATIVE WHOLESALE VALUES OF MAJOR SHELLFISH SPECIES

1985 - 1987

SPECIES	1985 ($'000)	1986 ($'000)	1987 ($'000)
Abalone	480	690	873
Clams[1]	4,859	7,425	10,243
Geoducks	6,807[3]	7,088	12,265
Crabs	5,942	6,082	9,025[5]
Octopus	121	66	275
Oysters	2,966	3,254	3,713
Shrimp	2,555	2,679	6,977
Prawns	2,880	2,979	4,551
Squid	120	637[4]	801[4]
Mussels	-	5	80
Scallops	128	159	239
Sea Cucumbers		461	1,490
Sea Urchins	2,934	3,344	4,929[6]
Other	151[2]	18	538
TOTAL	29,943[3]	34,887	55,999

1 Includes horse clams.
2 Includes sea cucumbers and other shellfish n.e.s.
3 Revised
4 Includes products derived from squid originating outside of B.C. waters.
5 Includes products derived from imported crabs.
6 Includes product derived from imported sea urchins.

F. AQUACULTURE PRODUCTION

SUMMARY OF THE B.C. AQUACULTURE INDUSTRY

The Aquaculture industry in British Columbia dates back to the early 1900's when the Pacific, or Japanese oyster was imported from Japan for cultivation. Freshwater rainbow trout culture started during the 1950's and salmon aquaculture in sea pens was begun during the 1970's. The culture of other species such as sablefish, carp, abalone, mussels, clams, scallops and marine plants are undertaken on a scale that is only just moving beyond the research and development phase, although some commercial production is recorded.

In 1987, the shellfish industry was comprised of 384 active tenures utilizing 1,617 hectares of foreshore. These figures represent an increase of 5 per cent over 1986 in leased area and a 14 per cent increase in numbers of growers. The majority of these farms utilize off-bottom culture technology. This trend is likely to continue and expand as suitable intertidal ground is very limited. Oyster farms, which comprise the majority of shellfish, are currently distributed along the east and west coast of Vancouver Island and the Sunshine Coast, with the greatest production achieved in the Baynes Sound area of Vancouver Island.

Pacific oyster production amounted to 3,482 tonnes in 1987, with a reported value to the producers of $2.5 million. This is a 22 percent increase in production from 1986 but no significant change in value. The reason for apparent low value primarily reflects a revision in the method of data compilation in 1987 which more accurately reflects a "farm gate" selling price. The expanding mussel and clam industries reported 39 tonnes of production in 1987 valued at $79 thousand to the producer which represents a 200 percent increase in tonnage produced and a 163 percent increase in value.

The trout farming sector consisted of 138 commercial trout farmers in 1987. Rainbow trout production for market was 78 tonnes, with a reported value of $413 thousand. This is a 23 percent decrease in production and value from 1986. This drop in production over last year is probably due to an increased effort by trout farmers to supply live fish to the marine grow-out industry. Only 26 percent of all farmers produced product for the table market, the remaining 72 percent sold live fish to other farmers for grow-out, operated U-catch-em ponds, or reported no production at all. Trout farms are located on private land and are not subject to the same tenure process as salmon farms.

The mid 1980's was the beginning of a boom period for the salmon farming industry on the British Columbia coast. By the end of 1987 there were 118 approved salmon farms operating in B.C., a 44 percent increase from 1986. Forty percent of these farms were concentrated in the Sunshine Coast area, although the trend is for a larger concentration of farms in the North Georgia Strait area. Production in 1987 was 1,362 tonnes, with a reported value of $10.3 million to the producer. This is a three-fold increase in the quantity and value of production from 1986.

TABLE 28 - AQUACULTURE PRODUCTION IN BRITISH COLUMBIA - 1982-1987

SPECIES		1982	1983	1984	1985	1986	1987
MARINE PEN REARED SALMONIDS	Tonnes	273	128	107	120	400	1,362
	$'000	1,136	708	702	820	2,728	10,281
TROUT	Tonnes	74	77	71	83	101	78
	$'000	n/a	441	433	435	569	413
CARP	Tonnes	n/a	14	11	9	*	12
	$'000	n/a	n/a	n/a	23	*	22
OYSTERS	Tonnes	1,579	2,453	2,897	3,420	2,864	3,482
	$'000	981	1,554	2,109	2,163	2,515	2,548
MUSSELS	Tonnes	-	-	-	n/a	6	14
	$'000	-	-	-	4	16	36
CLAMS	Tonnes	-	-	-	4	7	25
	$'000	-	-	-	4	14	43
SCALLOPS	Tonnes	-	-	-	-	-	*
	$'000	-	-	-	-	-	*
ABALONE (experimental)	Tonnes	-	-	-	n/a	n/a	n/a
	$'000	-	-	-	n/a	n/a	n/a
MARINE PLANTS	Tonnes	n/a	n/a	*	*	*	*
	$'000	n/a	n/a	*	*	*	*

* Confidential. Fewer than three companies reporting.

1. OYSTERS

Shellfish production in British Columbia is primarily based on the culture of the Pacific oyster. In 1987, total production for this species was 3,482 tonnes, an increase of 22 percent from 2,864 tonnes in 1986. This increase likely reflects the effect of remote larvae-setting operations and their ability to supply the increasing demand of the industry.

The landed value which shows no major increase despite the significant increase in production over the past year, primarily reflects a revised method of data collection in 1987 which more accurately represents a "farm gate" selling price. The total wholesale value of all oyster products, however, showed a modest 12 percent increase over 1986, from $3.3 million to $3.7 million.

The major growth area in oyster culture continues to be half-shell production. Significant increases in 1987 pushed sales to over 385,000 dozen from 311,000 dozen in 1986. This growth is likely to continue in the near future as many new growers come on stream or continue to expand.

The use of eyed larvae for seed production continues to replace the collection of wild seed. In 1987, 57 farms set approximately 2.1 billion larvae in British Columbia; setting success, however was lower than expected. The majority of eyed larvae continue to be imported from the United States.

TABLE 29 - BRITISH COLUMBIA OYSTER PRODUCTION - 1975 - 1987

	Production[1] (Tonnes)	Landed Value ($'000)
1975	3,246	883
1976	3,245	887
1977	2,998	981
1978	2,793	1,021
1979	2,231	893
1980	1,922	1,134
1981[2]	1,415	1,030
1982[2]	1,579	981
1983[2]	2,453	1,554
1984[2]	2,897	2,109
1985[2]	3,420	2,613
1986[2]	2,864	2,515
1987[2]	3,482	2,548[3]

1 1975-1980 production data was provided by the Department of Fisheries Oceans and 1981 - 1987 data was provided by the Aquaculture Operations Unit, Ministry of Agriculture and Fisheries.
2 Includes a small amount of wild oyster harvest from picking permits.
3 The landed value is relatively lower than previous years as it more accurately reflects a "farm gate" selling price.

2. SALMON

In 1987, 51 companies reported production totalling 1,362 tonnes worth $10.3 million. This represents a greater than three-fold increase in quantity and value from 1986. Production is expected to continue to grow significantly in the future as more farms begin to market their fish.

In 1987, the second year in which marine-reared rainbow trout were marketed, a total of 150 tonnes of fish were produced with a value of $1 million.

Salmon farmers targetted over 96 percent of their product to the fresh market with only a small amount being processed frozen or smoked. The total wholesale value of all farmed salmon products was slightly above the farm value.

TABLE 30 - BRITISH COLUMBIA SALMONID MARICULTURE PRODUCTION - 1979 - 1987[1]

	COHO		CHINOOK		STEELHEAD/ RAINBOW TROUT		TOTAL PRODUCTION	
	Quantity (Tonnes)	Value ($'000)	Quantity (Tonnes)	Value ($'000)	Quantity (Tonnes)	Value ($'000)	Quantity (Tonnes)	Value ($'000)
1979	41	157	-	-	-	-	41	157
1980	157	898	-	-	-	-	157	898
1981	176	985	-	-	-	-	176	985
1982	230	908	43	228	-	-	273	1,136
1983	73	350	55	358	-	-	128	708
1984	64[2]	306	43	396	-	-	107	702
1985	66[2]	395	54	425	-	-	120	820
1986	304	2,014	87	642	9[3]	72	400	2,728
1987[4]	545	3,559	667	5,676	150	1,046	1,362	10,281

1 Source: British Columbia Annual Fisheries Production Statistics and British Columbia Commercial Fish Farm Statistics.
2 Includes an unspecified amount of marine pen-reared rainbow trout.
3 Includes an unspecified amount of "other" species.
4. Preliminary.

TABLE 31 - QUANTITY AND VALUE OF BRITISH COLUMBIA MARINE PEN-REARED (FARMED) DRESSED SALMON BY SPECIES - 1987

	FRESH DRESSED						FROZEN DRESSED			TOTAL		
	Head-On			Head Off			Head-on/Head-off			Fresh/Frozen		Dressed
SPECIES	000kg	$000	$/kg	000kg	$000	$/kg	000kg	$000	$/kg	000kg	$000	$/kg
Chinook	554	4,936	8.90	6	63	10.97	26	188	7.26	586	5,187	8.70
Coho	383	2,928	7.64	70	712	10.25	17	158	9.21	470	3,798	8.08
Steelhead	134	725	5.39	-	-	-	-	-	-	134	725	5.41
TOTAL	1,071	8,589	-	76	775	-	43	346	-	1,190	9,710	-

3. FRESHWATER TROUT

The trout aquaculture industry reported a total of 78 tonnes of market sales in 1987, representing a 23 percent decrease from 1986. The total value of these sales also decreased by 27 percent from $569 thousand to $413 thousand.

The majority of trout was marketed as a fresh dressed head-on product accounting for about 95 percent of the production. The remainder was either sold live or as frozen product, both head-on and head-off.

Although there were 138 freshwater commercial licence-holders in 1987, only 26 percent of them reported any market sales and much of that was concentrated among a few operators. Six farmers reported 88 percent of the 1987 production. However, 76 of the licence-holders reported no sales whatsoever.

Despite the drop in production experienced in 1987, the industry is expected to grow, as many of the major operators intend to expand their production, and some have significant increases planned both at their own sites and at new grow-out sites. In addition, many of the licence-holders who were not rearing fish indicated their intention to do so in the near future.

TABLE 32 BRITISH COLUMBIA FRESHWATER TROUT FARM PRODUCTION - 1979 - 1987

	Production[1] (Tonnes)	Value ($'000)
1979	53	n/a
1980	56	n/a
1981	71	n/a
1982	74	n/a
1983	77	441
1984	71	433
1985	83	435
1986	101	569
1987	78	413

1 Food Market Sales 1979 - 1985 data was provided by the Ministry of Environment and Parks, Fisheries Branch, in "B.C. Commercial Fish Farm Statistics".

G) MAJOR SPECIES BY PRODUCT TYPE

TABLE 33 - LANDINGS AND PRODUCTS PROCESSED IN B.C. - 1987[1]

SPECIES	QUANTITY (Tonnes)	VALUE ($'000)	AVG. PRICE[2] ($/KG)
ABALONE			
Landed	49	973	19.86
Processed:			
In Shell, Fresh or Frozen	41	873	21.22
Total Wholesale Value	-	873	-
CLAMS			
Butter Clams Landed[3]	-	-	-
Processed:			
Fresh or Frozen	17	18	1.05
Meat, Fresh or Frozen	20	81	4.02
Butter Clam Products[4]	-	20	-
Total Wholesale Value	-	119	-
Geoduck Clams Landed	5,734	6,184	1.08
Processed:			
Live	746	2,677	3.59
Neck Meat	913	8,541	9.35
Body Meat	490	1,047	2.14
Total Wholesale Value	-	12,265	-
Littleneck Clams Landed[3]			
Processed:			
Fresh or Frozen	3,887	9,414	2.42
Total Wholesale Value	-	9,414	-
Other Clams Landed[5]	4,634	7,083	1.53
Processed:			
Fresh or Frozen	4	10	2.34
Other[6]	-	700	-
Total Wholesale Value	-	710	-
CRABS			
Landed	1,631	6,452	3.96
Processed:			
In Shell, Fresh[7]	1,156	6,498	5.62
In Shell, Frozen	69	439	6.33
Meat, Fresh	54	1,258	23.34
Meat, Frozen	7	179	25.24
Cooked	77	514	6.64
Other[8]	-	137	-
Total Wholesale Value	-	9,025	-

TABLE 33 - CONT'D

SPECIES	QUANTITY (Tonnes)	VALUE ($'000)	AVG. PRICE[2] ($/KG)
DOGFISH			
Landed	3,767	1,539	0.41
Processed:			
Fresh Round	2,133	879	0.41
Frozen	351	578	1.65
Flaps	61	284	4.64
Backs	250	494	1.98
Fins & Tails	54	228	4.25
Other[9]	-	1	-
Total Wholesale Value	-	2,464	-
EULACHONS			
Landed	20	21	1.05
Processed:			
Fresh	11	14	1.28
Other[10]	-	1	1
Total Wholesale Value	-	15	-
FLOUNDER			
Landed	67	30	0.45
Processed:			
Fresh Round	8	11	1.31
Fillets, Fresh	11	61	5.70
Fillets, Frozen	3	18	5.68
Total Wholesale Value	-	90	-
GREY/PACIFIC COD			
Landed	13,691	8,577	0.63
Processed:			
Fresh Round	899	796	0.89
Fresh Dressed	50	109	2.19
Frozen Dressed	64	131	2.04
Fillets, Fresh	1,933	8,544	4.42
Fillets, Frozen	1,372	6,422	4.68
Other[11]	-	1,282	-
Total Wholesale Value	-	17,284	-
HAKE			
Landed (B.C. Ports)	13,112	1,722	0.13
Processed:			
Fresh Round	23,835	3,149	0.13
Other[12]	-	265	-
Total Wholesale Value	-	3,414	-

TABLE 33- CONT'D

SPECIES	QUANTITY (Tonnes)	VALUE ($'000)	AVG.PRICE[2] ($/KG)
HALIBUT			
Landed (B.C. Ports)	4,751	24,310	5.12
Processed:			
Fresh Dressed	2,405	13,789	5.73
Frozen Dressed	3,023	18,327	6.06
Fillets, Fresh or Frozen	19	251	12.87
Steaks, Frozen	86	651	7.58
Other[13]	-	863	-
Total Wholesale Value	-	33,881	-
HERRING			
Landed[14]	37,809	107,352	2.84
Processed:			
Bait, Fresh or Frozen	804	1,945	2.42
Frozen for Food	578	545	0.94
Body and Offal Oil	951	360	0.38
Body and Offal Meal	5,248	3,765	0.72
Roe[15]	5,788	155,074	26.79
Spawn on Kelp	194	10,444	53.90
Other[16]	-	1,517	-
Total Wholesale Value	-	173,650	-
LING COD			
Landed	3,540	3,310	0.94
Processed:			
Fresh Round	483	447	0.92
Fresh Dressed	376	836	2.22
Frozen Dressed	311	724	2.33
Fillets, Fresh	446	1,916	4.29
Fillets, Frozen	310	1,650	5.33
Other[17]	-	1,996	-
Total Wholesale Value	-	7,569	-
MUSSELS			
Landed	2	3	1.50
Processed:			
In shell, Fresh or Frozen	18	80	4.52
Total Wholesale Value	-	80	-
OCTOPUS			
Landed	130	381	2.93
Processed:			
Fresh	12	42	3.50
Frozen	4	16	3.73
Bait	53	217	4.11
Total Wholesale Value	-	275	-

TABLE 33 - CONT'D

SPECIES	QUANTITY (Tonnes)	VALUE ($'000)	AVG. PRICE[2] ($/KG)
OYSTERS			
Landed	3,482	2,548	0.73
Processed:			
In Shell	5,713	8	1.44
Half Shell(dozens)	385,003	1,235	3.21
Meat, Fresh, 8 oz.	28	253	9.09
Meat, Fresh, 16 oz.	6	50	8.17
Meat, Fresh, 32 oz.	282	2,145	7.60
Other[18]	-	22	-
Total Wholesale Value	-	3,713	-
PACIFIC OCEAN PERCH			
Landed	6,275	4,209	0.67
Processed:			
Fresh Round	1,075	990	0.92
Frozen Dressed	269	516	1.92
Fillets, Fresh	666	2,896	4.35
Fillets, Frozen	387	1,922	4.97
Other[19]	-	98	-
Total Wholesale Value	-	6,422	-
POLLOCK			
Landed	861	251	0.29
Processed:			
Fresh Round	142	51	0.36
Fillets, Fresh	181	603	3.33
Fillets, Frozen	87	284	3.25
Other[20]	-	3,070	-
Total Wholesale Value	-	4,008	-
PRAWNS			
Landed	620	4,326	6.98
Processed:			
Fresh	395	2,889	7.31
Frozen	107	1,097	10.22
Tails, Frozen, Cooked	31	499	16.14
Whole, Frozen, Cooked	7	60	8.16
Other[21]	-	6	-
Total Wholesale Value	-	4,551	-
RED SNAPPER			
Landed[22]	-	-	-
Processed:			
Fresh Round	191	447	2.35
Fresh Dressed	55	115	2.08
Frozen Dressed	152	431	2.84
Fillets, Fresh	41	181	4.45
Fillets, Frozen	113	465	4.13
Other[23]	-	8	-
Total Wholesale value	-	1,647	-

TABLE 33 - CONT'D

SPECIES	QUANTITY (Tonnes)	VALUE ($'000)	AVG. PRICE[2] ($/KG)
ROCKFISH			
Landed	17,857	13,901	0.78
Processed:			
Fresh Round	7,094	7,562	1.07
Fresh Dressed	63	152	2.43
Frozen Dressed	286	516	1.80
Fillets, Fresh	2,376	10,308	4.34
Fillets, Frozen	622	2,711	4.36
Other[24]	-	177	-
Total Wholesale Value	-	21,426	-
SABLEFISH			
Landed	4,717	14,546	3.08
Processed:			
Fresh Round	89	166	1.86
Fresh Dressed	59	235	3.95
Frozen Dressed, Japanese Cut	2,600	14,774	5.68
Frozen Dressed, Western Cut	251	1,271	5.07
Smoked, Dressed	58	444	7.66
Smoked Fillets	13	55	4.27
Other[25]	-	8	-
Total Wholesale Value	-	16,953	-
SALMON			
Landed[26]	63,515	212,063	3.34
Processed:			
Fresh Round	288	1,112	3.87
Fresh Dressed	3,722	23,661	6.36
Frozen Dressed	25,426	186,329	7.33
Frozen Fillets & Steaks	413	3,495	8.46
Salted	452	5,366	11.87
Smoked	1,173	21,436	18.28
Canned[27] (48 lb. cases)	1,008,682	171,573	170.09
Roe[28]	1,004	9,180	9.15
Offal Meal	1,023	582	0.57
Other[29]	-	2,867	-
Total Wholesale Value		425,601	-
MARINE PEN-REARED (FARMED) SALMON			
Landed	1,362	10,281	7.55
Processed:			
Fresh Dressed	1,147	9,364	8.16
Frozen Dressed	53	346	6.53
Smoked	33	820	24.85
Total Wholesale Value	-	10,530	-

TABLE 33 - CONT'D

SPECIES	QUANTITY (Tonnes)	VALUE ($'000)	AVG. PRICE[2] ($/KG)
SCALLOPS			
Landed	66	244	3.70
Processed:			
In shell, Fresh or Frozen	52	239	4.58
Total Wholesale Value	-	239	-
SEA URCHINS			
Landed	2,223	1,276	0.57
Processed:			
Whole, Fresh or Chilled	77	258	3.36
Roe in trays	148	4,111	27.73
Other[30]	-	560	-
Total Wholesale Value	-	4,929	-
SEA CUCUMBERS			
Landed	1,722	768	0.45
Processed:			
Meat	171	1,454	8.51
Other	7	36	4.96
Total Wholesale Value	-	1,490	-
SHRIMP			
Landed	2,644	4,609	1.74
Processed:[31]			
Fresh	1,016	2,336	2.30
Frozen	518	1,410	2.72
Shrimp Meat, Fresh	135	1,952	14.48
Shrimp Meat, Frozen	95	1,198	12.64
Other[32]	-	81	-
Total Wholesale Value	-	6,977	-
SKATE			
Landed	751	124	0.17
Processed:			
Fresh	3	4	1.09
Wings	170	392	2.30
Other[33]	-	3	-
Total Wholesale Value	-	399	-
SMELT			
Landed	2	5	2.50
Processed:			
Fresh or Frozen	1	2	2.02
Total Wholesale Value	-	2	-

TABLE 33 - CONT'D

SPECIES	QUANTITY (Tonnes)	VALUE ($'000)	AVG. PRICE[2] ($/KG)
SOLE			
Dover Sole Landed[34]			
Processed:			
Fresh Round	51	47	0.92
Fillets, Fresh	24	150	6.12
Other[35]	-	75	-
Total Wholesale Value	-	272	-
English Sole Landed[34]			
Processed:			
Fresh Round	40	43	1.09
Fillets, Fresh	70	494	7.11
Other[36]	-	77	-
Total Wholesale Value	-	614	-
Petrale Sole Landed[34]			
Processed:			
Fresh Round	53	139	2.63
Frozen Round	40	114	2.84
Fillets, Fresh	115	892	7.75
Fillets, Frozen	9	70	8.07
Other[37]	-	3	-
Total Wholesale Value	-	1,218	-
Rock Sole Landed[34]			
Processed:			
Fresh Round	37	41	1.10
Fillets, Fresh	109	718	6.60
Fillets, Frozen	19	137	7.15
Other[38]	-	5	-
Total Wholesale Value	-	901	-
Other Sole Landed	3,022	2,472	0.82
Processed:			
Fresh Round	57	87	1.52
Fillets, Fresh	156	975	6.26
Fillets, Frozen	192	1,454	7.56
Other[39]	-	231	-
Total Wholesale Value	-	2,747	-
SQUID			
Landed	86	132	1.53
Processed:[40]			
Fresh or Frozen	213	717	3.37
Fresh and Frozen Bait	-	84	-
Total Wholesale Value	-	801	-

TABLE 33 - CONT'D

SPECIES	QUANTITY (Tonnes)	VALUE ($'000)	AVG. PRICE[2] ($/KG)
STURGEON			
Landed	6	12	2.00
Processed:			
Fresh	4	17	3.84
Other[41]	-	*[42]	-
Total Wholesale Value	-	17	-
TUNA			
Landed (B.C. Ports)[43]	-	-	-
Processed:			
Frozen	42	141	3.34
Other[44]	-	90	-
Total Wholesale Value	-	231	-
TURBOT			
Landed	1,111	347	0.31
Processed:			
Fillets, Fresh	56	201	3.60
Fillets, Frozen	220	922	4.20
Other[45]	-	235	-
Total Wholesale Value	-	1,358	-
MISCELLANEOUS FISH			
Landed[46]	659	556	0.84
Processed:			
Other Products[47]	-	8,453	-
Total Wholesale Value	-	8,453	-

TABLE 33 - CONT'D - FOOTNOTES

1 Any discrepancy in value figures is due to rounding.
2 Average price is based on totals prior to rounding.
3 Included in "other clams".
4 Includes canned, nectar and other butter clam products.
5 Includes horse clams.
6 Includes fresh or frozen clam meat, bait, horse clam body and neck meat and other products.
7 Includes some imported crabs.
8 Includes canned and other crab products.
9 Includes other dogfish products.
10 Includes frozen and other eulachon products.
11 Includes blocks, roe and other Pacific cod products.
12 Includes frozen hake and other products.
13 Includes frozen fletches and other halibut products.
14 Includes herring spawn on kelp.
15 Includes mature and immature roe, some of which was derived from imported herring.
16 Includes fresh herring and sardines, dry salted, pickled, fillets and other herring products..
17 Includes frozen lingcod steaks, blocks, surimi and other products.
18 Includes canned and other oyster products.
19 Includes fresh dressed and other Pacific Ocean Perch products.
20 Includes frozen, blocks, roe, surimi and other pollock products derived from imported pollock.
21 Includes prawn meat frozen cooked and other products.
22 Included in rockfish.
23 Includes other red snapper products.
24 Includes blocks and other rockfish products.
25 Includes other sablefish products.
26 Includes salmon roe.
27 Includes specialty packs.
28 Includes "No. 1 Grade" and "other grades."
29 Includes offal, oil, heads, bait, milts and other salmon products.
30 Includes bulk roe and other sea urchin products some of which was derived from imported sea urchins.
31 Includes shrimp products derived from imported shrimp.
32 Includes other shrimp products.
33 Includes frozen skate and other products.
34 Included in "other sole."
35 Includes frozen round dover sole, fresh/frozen dressed products and frozen fillets.
36 Includes frozen round english sole, frozen fillets and fresh/frozen dressed products.
37 Includes fresh/frozen dressed petrale sole and other sole products.
38 Includes frozen round and fresh/frozen dressed rock sole products.
39 Includes frozen round, fresh/frozen dressed, blocks and other sole products.
40 Includes products derived from squid originating from outside B.C. waters.

TABLE 33 - CONT'D - FOOTNOTES

41 Includes frozen and other sturgeon products.
42 Less than $500.
43 Does not include 92 tonnes worth $300,000 caught in U.S. waters and landed in Canada by Canadian fishermen.
44 Includes fresh, canned, smoked and other tuna products. Also includes tuna products derived from imported tuna (U.S. or international water origin).
45 Includes fresh and frozen round turbot, blocks and other products.
46 Includes non food fish, snails, idiotfish, plankton, shark, anchovies, crayfish, and other fish and shellfish n.e.s.
47 Includes "other groundfish," "portions, sticks and specialty" products some of which may contain imported fish, "other shellfish," fish meal n.e.s., fish oil n.e.s. and marine plants.

III. LICENCING OF THE B.C. FISHING AND FISH PROCESSING SECTORS - 1987

The total number of personal commercial fishing licences issued by the Department of Fisheries and Oceans in 1987 increased by 11 percent from 16,721 in 1986 to 18,542. Due to the fact that 1987 was the sixth year in which a 5 year licence was issued, the overall change in numbers of licences issued may not actually reflect a change in the number of people licenced to fish - i.e. holders of 5 year licences only renew every five years. A total of 1987 5 year licences, as well as 16,555 traditional 1 year licences were issued compared to 921 and 15,800 issued in 1986, respectively. It should be noted that a total of 5,186 5 year licences were valid during 1987.

Overall the number of licences issued by the Department of Fisheries and Oceans for limited entry commercial fisheries remained relatively constant for the seventh consecutive year. All categories of limited entry licences displayed only minor fluctuations. There were, however, significant increases in the number of unlimited entry (Z) fisheries licences issued. Most categories showed increases over 1986, most noteably for sea urchin and cucumbers. The second year of a new Z licence (N) for rockfish by hook and line gear brought a continued shift of vessels from the previous C category. A new Z (M) licence for herring other than roe herring was introduced in 1987.

The number of fish processing licences issued by the Ministry of Agriculture of Fisheries increased by 6 percent in 1987, from 224 to 237. The number of all categories of processing licences issued rose slightly except for small cold storage licences which declined. A total of 4 marine plant processing licences were issued in 1987.

The number of fish buying licences issued to persons and/or companies increased in all except the roe herring category, which remained the same. A total of 463 were issued in 1987, compared to 444 in 1986, an increase of 4 percent. Specifically, the number of fish buying decals issued were: 290 for salmon, 185 for roe herring, 132 for other finfish and 106 for invertebrates. A total of 181 fishermen's vending licences were also issued in 1987, as compared to 203 in 1986. Finally, 412 oyster picking permits and 52 marine plant harvesting permits were issued by the Ministry of Agriculture and Fisheries.

TABLE 34 - THE NUMBER OF PERSONAL COMMERCIAL FISHING LICENCES ISSUED BY THE DEPARTMENT OF FISHERIES AND OCEANS; BY DISTRICT 1985-87[1]

	1985		1986		1987	
	1 Year	5 Year[2]	1 Year	5 Year[2]	1 Year	5 Year[2]
KAMLOOPS	6		8		8	
NEW WESTMINSTER	2,243	126	2,267	234	2,355	310
NANAIMO	3,551	60	3,965	82	4,772	208
PORT ALBERNI	1,330	1	1,350	12	1,540	37
CAMPBELL RIVER	2,209	11	2,344	158	2,281	165
PRINCE RUPERT	2,350[3]	68[3]	2,385[3]	113[3]	2,115[3]	374[3]
VICTORIA	1,486	4	1,458	64	1,466	138
VANCOUVER	1,881	176	1,938	258	1,944	755
WHITEHORSE	65	-	85	-	74	-
TOTAL	15,121	446	15,800	921	16,555	1987

1 Information provided by the Licencing Section, Department of Fisheries and Oceans.

2 A total of 3,459 5 year licences were valid during 1985, 4,233 in 1986 and 5,186 during 1987.

3 Prince Rupert totals include licences for Kitimat and Queen Charlotte City districts.

TABLE 35 - THE NUMBER OF LICENCES ISSUED FOR COMMERCIAL FISHERIES BY THE DEPARTMENT OF FISHERIES AND OCEANS: BY FISHERY AND LICENCE CATEGORY 1985 - 1987[1]

FISHERY	LICENCE CATEGORY	1985	1986	1987
Salmon				
General	A	3,672	3,679	3,677
Seine	A	550	548	549
Temporary	B	7	5	2
N.N.F.C.[2]	N	253	253	253
Salmon Subtotal		4,482	4,485	4,481
Roe Herring				
Gillnet	H	1,327	1,327	1,327
Seine	H	252	252	252
Roe Herring Subtotal		1,579	1,579	1,579
Spawn on Kelp	J	28	28	28
Halibut	L	434	432	433
Groundfish Trawl	T	142	142	141
Shrimp Trawl	S	247	249	248
Sablefish	K	47	47	47
Abalone	E	26	26	26
Geoduck	G	55	55	55
Selected Species	C	1,102	1,092	1,069

[1]Information provided by the Licencing Section, Department of Fisheries and Oceans.
[2]Northern Native Fishing Corporation exclusive licences.

TABLE 36 - THE NUMBER OF LICENCES ISSUED FOR COMMERCIAL FISHERIES BY THE DEPARTMENT OF FISHERIES AND OCEANS:

SPECIAL FISHERIES (Z) - UNLIMITED ENTRY - 1985 -1987[1]

		1985	1986	1987
B. Unlimited Licences				
Packing	D	198	211	187
Processor	P	5	7	10
Special Fisheries - Fishing with a Vessel Z				
Clams	Z-A	1	0	0
Weathervane Scallops	Z-B	8	1	5
Red Sea Urchin	Z-C	86	103	184
Sea Cucumber	Z-D	40	63	151
Squid Species	Z-E	76	61	69
Euphausiid	Z-F	5	11	18
Copepod	Z-G	0	0	0
Shrimp	Z-H	544	551	698
Pink or Spiny Scallop	Z-I	22	24	29
Octopus	Z-J	73	91	167
Anchovy	Z-K	14	18	28
Surf and Pile Perch	Z-L	21	20	26
Herring other than Roe Herring[2]	Z-M	-	-	25
Rockfishes	Z-N	-	1,362	1,935
Six-gill sharks	Z-O	-	0	17
Special Fisheries - Fishing Without a Vessel Z				
Mussel	Z-1	5	9	25
Welk	Z-2	0	0	0
Winkles	Z-3	0	0	0
Top Snail	Z-4	0	0	0
Limpet	Z-5	0	0	0
Goose Barnacle	Z-6	9	25	221
Octopus	Z-7	15	13	19
Smelt	Z-8	30	34	44
Eulachon	Z-9	1	1	2

1 Information provided by the Licencing Section, Department of Fisheries and Oceans.

2 Newly introduced licence categories.

TABLE 37 - THE NUMBER OF FISH PROCESSING, FISH BUYING AND FISHERMEN'S VENDING LICENCES ISSUED BY THE MINISTRY OF AGRICULTURE & FISHERIES: BY LICENCE TYPE - 1985 - 1987[1]

	1985	1986	1987
Processing Licences			
Commercial Salmon Cannery	16	14	14
Sport Caught Salmon Cannery	-	-	1[2]
Salmon	89	105	118
Roe Herring	33	31	37
Fin Fish	83	82	97
Invertebrates	89	105	116
Cold Storage:			
a. over 80 m^3	57	63	74
b. under 80 m^3	45	53	51
Marine Plants	2	2	4
Non-human consumption	-	-	7
Buyer Licence Decals Issued			
Salmon	273	273	290
Roe Herring	117	185	185
Fin Fish	98	113	132
Invertebrates	82	83	106
Fisherman's Vending Licences	240	203	181
Oyster Picking Permits	197	300	412
Marine Plant Harvesting Licences	27	36[3]	52[3]

1 Covers the fiscal year period from April 1 to March 31.

2 In 1987 six companies were licenced to can sport-caught fish, five were already covered by commercial salmon cannery licences while the other was exclusively licenced as a sport-caught cannery. In 1985 and 1986 all sport-caught canneries were already licenced as commercial canneries.

3 Salicornia industry development accounted for 14 issued licences in 1986 and 13 in 1987.

TABLE 38 - NUMBER OF BRITISH COLUMBIA FISH PROCESSING FACILITIES BY GEOGRAPHIC REGION[1]
1986/87 - 1987/88

Region	1986/87[2] Only Canning	Only Cold[3] Storage	Canning and Cold Storage	Plant Only	Total Plants	1987/88[2] Only Canning	Only Cold[3] Storage	Canning and Cold Storage	Plant Only	Total Plants
Lower Mainland	2	48	4	24	78	2	53	4	28	87
Southern Vancouver Island	2	36	1	31	70	1	20	1	22	44
West Coast Vancouver Island	-	5	-	2	7	-	8	-	5	13
Northern Vancouver Island	1	2	-	4	7	1	16	1	14	32
Sunshine Coast	-	5	-	5	10	-	7	-	13	20
Central Coast	-	1	-	-	1	-	1	-	-	1
North Coast/Prince Rupert	-	5	4	2	11	-	5	4	1	10
Queen Charlotte Islands	-	2	-	1	3	-	1	-	2	3
Interior of B.C.	-	-	-	-	-	-	2	-	1	3
TOTAL	5	104	9	69	187	4	113	10	86	213

1 Does not include vessels that were licenced to process or companies that leased space in licenced facilities. Sports fish canning facilities are included.
2 Based on Province of British Columbia Fiscal Year (April 1 to March 31).
3 This category may include facilities in which fresh/frozen fish products were processed.

IV. EMPLOYMENT IN THE B.C. FISH PROCESSING SECTOR

For the first time in 1987, a survey of processing facilities was conducted to gather information on the average number of employees involved within the sector. Data was compiled by month and geographic region based on the number of employees on payroll on the last working day of each month or at the end of a specific processing activity (i.e. roe herring) that concludes mid-month.

Employment by month ranged from a low of 3,372 in January to a peak of 8,336 in August. The total average employment over the 1987 calendar year for all geographic regions was 5,539, with 61 percent of these employees being concentrated in the lower mainland area.

TABLE 39 - REGIONAL EMPLOYMENT IN THE B.C. FISH PROCESSING SECTOR BY MONTH - 1987[1]

	Lower Mainland	Vancouver Island	Sunshine Coast	Central and North Coast[2]	Total B.C.
JANUARY	2,136	592	87	557	3,372
FEBRUARY	2,184	652	99	685	3,620
MARCH	3,228	841	127	1,211	5,407
APRIL	3,732	835	133	1,382	6,082
MAY	3,692	895	113	1,247	5,947
JUNE	3,370	840	110	908	5,228
JULY	3,919	1,206	97	2,181	7,403
AUGUST	4,715	1,296	113	2,212	8,336
SEPTEMBER	3,817	1,123	128	1,386	6,454
OCTOBER	3,665	1,068	121	802	5,656
NOVEMBER	3,266	885	130	694	4,975
DECEMBER	2,512	814	102	558	3,986
TOTAL	40,236	11,047	1,360	13,823	66,466
AVERAGE	3,353	921	113	1,152	5,539

1 Includes executive, administrative and sales, processing/manufacturing operations and other related workers.

2 Includes persons involved in floating processing operations north of Cape Caution.

TABLE 40 - CANADIAN CONSUMER PRICE INDEX FOR ALL ITEMS AND SELECTED FOOD ITEMS FOR 1975 - 1987

1981 = 100

YEAR	ALL ITEMS	FISH	POULTRY	MEAT[1]
1975	58.5	50.0	61.2	n/a
1976	62.9	55.0	63.1	n/a
1977	67.9	60.7	63.3	n/a
1978	73.9	69.2	72.7	n/a
1979	80.7	76.9	82.4	89.6
1980	88.9	87.4	86.1	100.0
1981	100.0	100.0	100.0	102.6
1982	110.8	109.5	104.4	102.8
1983	117.2	115.0	107.8	107.7
1984	122.3	120.6	114.6	111.0
1985	127.2	125.7	113.0	116.6
1986	132.4	132.0	122.0	127.1
1987	138.2	146.8	128.6	127.5

Source: - Canada, Statistics Canada, Consumer Prices and Price Indexes, October - December, 1984. Ottawa: Supply and Services Canada, March 1985.
- Table 8: Consumer Price Index for Canada, All Items, 1973-1984, p. 24.
- Table 9: Consumer Price Index for Canada - Main Components, Sub-groups and Selected Items, pp. 25-26.
- Personal Communication, Statistics Canada, July 12, 1985.
- Personal Communication, Statistics Canada, Sept. 11, 1986.
- Personal " " " Dec. 22, 1987
- Personal " " " Feb. 28, 1989

1 Excludes poultry - Revised from previous editions.